

Safety Data Sheet

according to Regulation (EC) No 1907/2006

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Klar-Pilot - Fluid Super Plus

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Company name:	Pilot GmbH Chemie Technik	
Street:	Steinhof 37	
Place:	D-40699 Erkrath	
Telephone:	+49 -211 / 924020	Telefax: +49 -211 / 242194
Contact person:	Ursula Leuthold	
Responsible Department:	IFZ Ingenieurbüro und Consulting GmbH	
	Telephone: +49 - 30 / 2904897-10	
	Telefax: +49 - 30 / 2904897-20	

1.4. Emergency telephone number:

+49 -211 / 924020 (09.00 - 16.00 MEZ)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2. Label elements

Precautionary statements

P102 Keep out of reach of children.
P210 Keep away from heat. No Smoking.

Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Cleaning product, contains water, alcohols, surfactants and colourings

Hazardous components

EC No.	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
200-661-7	Isopropanol	
67-63-0	F - Highly flammable, Xi - Irritant R11-36-67	1- 5 %
603-117-00-0	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove soiled clothing.

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After inhalation

Upon irritation of the respiratory tract or mucous membranes (e.g. coughing), indisposition or prolonged exposure, consult a doctor.

After contact with skin

Wash contaminated skin areas thoroughly with soap and water.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids.

After ingestion

Clean mouth with water and drink plenty of water afterwards. - If you feel unwell, seek medical advice (show the label where possible).

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam, carbon dioxide (CO₂), chemical fire extinguisher, water spray mist

Unsuitable extinguishing media

Extinguishing media which must not be used for safety reasons: High volume water jet.

5.2. Special hazards arising from the substance or mixture

Large quantities: Vapours may form explosive mixture with air. Do not breathe in the vapours and combustion gases. Vapours are heavier than air and spread at the soil. Pay attention to flashback.

5.3. Advice for firefighters

Large quantities: In the event of fire, wear self-contained breathing apparatus.

Additional information

Water mist may be used to cool closed containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes.
Slipping hazard due to leakage.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

6.3. Methods and material for containment and cleaning up

Large quantities: Soak up with inert absorbent material. Dispose of the material collected according to regulations.

6.4. Reference to other sections

Refer to safety instructions (see sections 7 and 8).
Suitable protective equipment: See section 8.
Dispose of as described in section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special action required if used correctly. Do not empty container with pressure, it is not a pressurised container.

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Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store sealed in the original container. Store in cool place.

Further information on storage conditions

Protect from heat and direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

8.2. Exposure controls

Protective and hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Eye/face protection

Not required. In case of risk of splashing, wear protective glasses.

Hand protection

No special measures are necessary when normal, good hygiene is practised.
In the case of lengthy skin contact. Protective gloves made out of: PVC

Skin protection

Not required.

Respiratory protection

Not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: yellowish-orange

Test method

pH-Value: approx. 7.5

Changes in the physical state

Flash point: > 90 °C

Vapour pressure: <0.02 hPa
(at 20 °C)

Density: 1.01 g/cm³

Water solubility: completely miscible

Viscosity / kinematic: 4.1 mm²/s

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

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10.2. Chemical stability

Stable at normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No decomposition if used as directed.

10.5. Incompatible materials

No dangerous reactions are known.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No data is available on the product itself.

Acute toxicity

CAS No	Chemical name	Exposure routes	Method	Dose	Species	Source
67-63-0	Isopropanol					
	oral	LD50	4710 mg/kg	rats		
	dermal	LD50	12800 mg/kg	rats		
	inhalative (4 h) vapour	LC50	72.6 mg/l	rats		

Irritation and corrosivity

Contact with eyes may result in irritation.

SECTION 12: Ecological information

12.1. Toxicity

No data is available on the product itself.

CAS No	Chemical name	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
67-63-0	Isopropanol						
	Acute fish toxicity	LC50	1400 mg/l	96 h	Lepomis macrochirus		
	Acute algae toxicity	ErC50	> 1000 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50	13299 mg/l	48 h	Daphnia magna		

12.2. Persistence and degradability

No data is available on the product itself.

The surface active substances of the product correspond to the requirements of the EC Detergent Regulation (EC/648/2004) concerning ultimate aerobic biodegradation of tensides for washing and cleaning agents.

12.3. Bioaccumulative potential

No data is available on the product itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-63-0	Isopropanol	0.05

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12.4. Mobility in soil

No data is available on the product itself.

12.5. Results of PBT and vPvB assessment

No data is available on the product itself.

12.6. Other adverse effects

No data is available on the product itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Disposal in accordance with the official regulations. Product can be supplied in accordance with local authority requirements a biological treatment plant.

Waste disposal number of waste from residues/unused products

070601 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous washing liquids and mother liquors
Classified as hazardous waste.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u>	not regulated
<u>14.2. UN proper shipping name:</u>	not regulated
<u>14.3. Transport hazard class(es):</u>	not regulated
<u>14.4. Packing group:</u>	not regulated

Other applicable information (land transport)

Not classified as dangerous regarding transport regulations.

Inland waterways transport (ADN)

<u>14.1. UN number:</u>	not regulated
<u>14.2. UN proper shipping name:</u>	not regulated
<u>14.3. Transport hazard class(es):</u>	not regulated
<u>14.4. Packing group:</u>	not regulated

Marine transport (IMDG)

<u>14.1. UN number:</u>	not regulated
<u>14.2. UN proper shipping name:</u>	not regulated
<u>14.3. Transport hazard class(es):</u>	not regulated

Other applicable information (marine transport)

Not classified as dangerous regarding transport regulations.

Air transport (ICAO)

<u>14.1. UN number:</u>	not restricted
<u>14.2. UN proper shipping name:</u>	not restricted
<u>14.3. Transport hazard class(es):</u>	not restricted

Other applicable information (air transport)

Not classified as dangerous regarding transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

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14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

2004/42/EC (VOC): < = 5%

Additional information

No Substances of Very High Concern (SVHC) according REACH Article 57.

National regulatory information

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

Relevant R-phrases (Number and full text)

- | | |
|----|---|
| 11 | Highly flammable. |
| 36 | Irritating to eyes. |
| 67 | Vapours may cause drowsiness and dizziness. |

Relevant H- and EUH-phrases (Number and full text)

- | | |
|--------|---|
| H225 | Highly flammable liquid and vapour. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| EUH210 | Safety data sheet available on request. |

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)